PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 248/1 PCT	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/IB2004/003257	International filing date (day/month/year) 12 August 2004 (12.08.2004)	Priority date (day/month/year) 12 August 2003 (12.08.2003)	
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237		
Applicant EZRA, Lior, Ben			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total	al of 7 sheets, including this cover sheet.			
		ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.			
3.	This report contains indications	relating to the following items:			
	Box No. 1	Basis of the report			
	Box No. Π	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority			
		Date of issuance of this report			

21 February 2006 (21.02.2006)

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Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: THE 2 9 AUG 2005 BRUCE E. LILLING LILLING & LILLING P.C. P.O. BOX 560 WRITTEN OPINIOR THE PCT GOLDENS BRIDHE, NY 10526 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below 248/1 PCT International filing date (day/month/year) Priority date (day/month/year) International application No. 12 August 2003 (12.08.2003) PCT/IB04/03257 12 August 2004 (12.08.2004) International Patent Classification (IPC) or both national classification and IPC IPC(7): G01N 25/00; G01K 7/00 and US CI.: 374/54, 185, 148; 604/76; 73/204.25 Applicant EZRA, LIOR BEN 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66. Ihis (b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/ US Michille 1 Com Mail Stop PCT, Attn: ISA/US Diego Gutierrez Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 571-272-2247

Form PCT/ISA/237 (cover sheet) (January 2004)

Facsimile No. (703) 305-3230

International application No.

PCT/IB04/03257

Box No. I	Basis of this opinion	
1. With regar	d to the language, this epinion has been established on the basis of the international application in the language, unless otherwise indicated under this item.	ge in Which
This	s opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules (b)).	nge 12,3 and
2. With regard claimed inv	rd to any nucleotide and/or amino acid sequence disclosed in the international application and necessar vention, this opinion has been established on the basis of:	ry to the
a. type	of material	
	a sequence listing	
	table(s) related to the sequence listing	
b. form	nat of material	
	in written format	
	in computer readable form	
c. time	of filing/furnishing	
	contained in international application as filed.	
	filed together with the international application in computer readable form.	
	furnished subsequently to this Authority for the purposes of search.	
filed	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto lead to furnished, the required statements that the information in the subsequent or additional copies is identical tapplication as filed or does not go beyond the application as filed, as appropriate, were furnished.	has been to that in
4. Additional of	comments:	•
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DOM/IC: "		

International application No. PCT/IB04/03257

	applicability; citations and expla	anations supp	orting such statement	
. Stater	nent .			
	Novelty (N)	Claims	2, 3, 9, 10 and 12	YES
	Troversy (1.1)		1, 4-8, 11	NO
	Inventive step (IS)		NONE	
		Claims	1-12	NO
	Industrial applicability (IA)	* Claims	1-12	YE
÷	••	Claims	NONE	
	ons and explanations: e Continuation Sheet			
Tease Sec	e Continuation Sheet			
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Form PCT/ISA/237 (Box No. V) (January 2004)

International application No.

PCT/IB04/03257

Box No	VII	Certain	defects	in	the	international	application
DOM INU.	ATT	Celtam	ucicus	111	CHIC	mitti mativnai	application

The following defects in the form or contents of the international application have been noted:	
Claims 4-6 are objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents the There is lack of antecedent basis in claim 4 for "the CPU and /or display unit" in line 3. Claims 5 and 6 are objected to for being dependent on objected base claim 4.	ereof:

Form PCT/ISA/237 (Box No. VII) (January 2004)

International application No. PCT/IB04/03257

C	alumontal	Dow
Sup	plemental	DUX

In case the space in any of the preceding boxes is not sufficient.

V. 2. Citations and Explanations:

1. Claims 1, 4-8, and 11 lack novelty under PCT Article 33(2) as being anticipated by WO 01/54488 to Lowe et al [hercinafter Lowe].

Lowe discloses an apparatus for determining the amount of human milk supplied to a baby during a feeding session, the apparatus including:

a nipple shield adapted to be mounted on the nipple region of a breast of a mother and having an outlet through which the milk can pass to the baby;

a tube through which milk passes through to the baby; and

a thermal dilution gauge mounted on the shield to measure the amount of milk passing through the tube;

wherein the shield is made of isoprene rubber; the gauge is connected to a display unit via a data communication cable; and the display unit includes switches for displaying the amount of milk produced or consumed; and the shield substantially as described in the applicant's diagrams (see figure 1, page 2, lines 11-12; and page 3, lines 3-6).

2. Claim 2 lacks an inventive step under PCT Article 33(3) as being obvious over Lowe in view of U.S. Patent 4,680,028 to Stuart.

Lowe discloses an apparatus having all of the limitations of claim 2, as stated above in paragraph 1, except for the material of the shield being silicon rubber.

Stuart discloses a nipple shield for a breast pump to supply milk to a baby. The material of the shield is preferable silicone rubber since it is flexible and can be exposed to high temperature and pressure for disinfecting, i.e., autoclaved.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the shield of Lowe by making the shield of silicon rubber, as taught by Stuart, in order to provide a material that will allow the shield to be flexible over the breast and can be disinfected in an autoclave.

3. Claims 3, 9, 10, and 12 lack an inventive step under PCT Article 33(3) as being obvious over Lowe in view of EP 0285451 to Tanaka et al [hereinafter Tanaka].

Lowe discloses an apparatus having all of the limitations of claim 3, 9, 10, and 12, as stated above in paragraph 1, except for the gauge including a heater and two resistive temperature detectors that can be mounted outside or inside the tube as one chip.

Tanaka discloses a thermal gauge for measuring the amount of a fluid, the gauge including a heater and two resistive temperature detectors that can be mounted outside or inside a tube as one chip, the gauge being useful since it can be mass-produces with uniform sensor characteristics and can attain stabilized operation.

Referring to claim 3, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the shield of Lowe by replacing the gauge with a gauge as taught by Tanaka, in order to provide a, as taught by Stuart, in order to provide a gauge that can be mass-produces with uniform sensor characteristics and can attain stabilized operation.

Furthermore, referring to claims 9, 10, and 12, the apparatus of Lowe and Tanaka results in an apparatus, gauge, and a

Form PCT/ISA/237 (Supplemental Box) (January 2004)

International application No. PCT/IB04/03257

In case the space in any of the preceding boxes is not sufficient. method of determining the amount of milk substantially as described in the applicant's diagrams.					
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4. Claims 1-12 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the suclaimed can be made or used in industry.					
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